

27207

S/081/61/000/014/002/030  
B106/B110

"Chilling" of the catalytic oxidation...

(boiling point of  $\text{CH}_3\text{OH}$ ) the  $\text{CH}_2\text{O}$  yield did not change when the ratio  $\text{O}_2 : \text{CH}_3\text{OH}$  was altered from 0.6 to 1.5. Optimum conditions for the oxidation of  $\text{CH}_3\text{OH}$  with a chilling surface of Ag are:  $t_1$  450-480°C,  $t_2$  70°C,  $\text{O}_2 : \text{CH}_3\text{OH}$  1.0-1.3. [Abstracter's note: Complete translation.]

Card 2/2

STADNIK, P.M.; FENTSIK, V.P.

Catalytic oxidation of some alcohols on electrically charged  
silver catalysts. Kin, i kat. 2 no.4:562-566 JI-Ag '61.  
(MIRA 14:10)

1. Uzhgorodskiy gosudarstvennyy universitet, kafedra fizicheskoy  
khimii.

(Alcohols) (Oxidation) (Catalysis)

STADNIK, P.M.; FENTSIK, V. P.

Catalytic oxidation of methanol in an electric field. Ukr.khim.  
zhur. 27 no.3:421-424. '61. (MIRA 14:11)

1. Uzhgorodskiy gosudarstvennyy universitet.

(Methanol)  
(Oxidation)  
(Catalysis)

I. 64291-65 EXT(m)/EFP(c)/EWP(j) OS/RM

ACCESSION NRI AT5020465

UR/0000/64/000/000/0190/0198

AUTHOR: PAVLENKO, V. P. STUBBINS, R. K.

TITLE: Effect of an external electric field on the catalytic action of a silver oxide-silver system

SOURCE: Mezhdunarodskaya nauchno-tekhnicheskaya konferentsiya po fizike poluprovodnikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk, 1962. Poverkhnostnyye i kontaktnyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1964, 190-198

TOPIC TAGS: heterogeneous catalysis, electrochemistry, formaldehyde, methanol, oxidation, silver

ABSTRACT: The authors study the effect of an external electric field on the catalytic activity of silver oxide during catalytic oxidation of methanol to formaldehyde. The usual methods of chemical analysis were used for a qualitative and quantitative evaluation of this effect. An unexpected and extremely interesting effect was observed when an electric potential was applied to the catalyst. A change in sign in the charge on the catalyst changes the formaldehyde yield in diametrically opposed directions. When a negative potential is applied to the cata-

Card 1/2

L 64291-65

ACCESSION NR: AT5010465

lyst, the formaldehyde yield increases; when a positive charge is applied, the yield decreases. The effect of the electric field becomes apparent when the potential difference between the catalyst and the auxiliary electrode is only 5-10 volts. As the potential difference is increased, this effect increases, reaching a maximum at 40 v/cm. There is no further change in the formaldehyde yield even when the potential difference is increased up to 2500 volts. Similar effects were observed with regard to the yield of byproducts of the oxidation process. A theoretical explanation for the effect of the external field is given, based on the electron theory of heterogeneous catalysis (F. F. Vol'kenshteyn, "Electron Theory of Catalysis on Semiconductors," *Plasmafizika*, 1960, p 91 and p 147; F. F. Vol'kenshteyn, V. V. Sandomirskiy, *DAN SSSR*, 118, No 11, 980, 1959). Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 06Oct64

ENCL: 00

SUB CODE: GC

NO REF SOV: 005

OTHER: 000

dm  
Card 2/2

28921

S/056/61/041/004/004/019  
B108/B102

3,2410

AUTHORS: Bosoki, G., Fen'vesh, E., Shandor, T., Bales, O., Batagui, M.,  
Fridlender, Ye., Botey, B., Kavlakov, Sh., Mitrani, L.

TITLE: Absorption of nuclear-active cosmic-ray particles in air

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,  
no. 4(10), 1961, 1043-1045

TEXT: The absorption of the nuclear-active component of cosmic radiation in air was measured at various altitudes above sea level. Showers were recorded with a coincidence arrangement of counters installed in a lead block (Fig. 1). The muon background was measured in Budapest 8 m underground (17 m water equivalent) to secure the recording of sixfold-coincidences due to muons only. The sixfold coincidences were recorded by the pair-connected counters 5 and 7, and 6 and 8. This underground measurement, together with the other measurements at various altitudes, made it possible to obtain corrections for background to the coincidence measurements with nuclear-active cosmic-ray particles. Results: H

Card 1/43

28921

Absorption of nuclear-active cosmic-...

S/056/61/041/004/004/019  
B108/B102

Place of measurement	Depth, g/cm <sup>2</sup>	Coincidences per hour
Bucharest (80 m above sea level)	1009	1.00 ± 0.04
Budapest (410 m)	969	1.55 ± 0.04
Bushteni (950 m)	907	2.37 ± 0.04
Pik Stalina (2925 m)	703	13.67 ± 0.11

The absorption mean free path  $\lambda_a$  for nuclear-active particles in air was found to be  $(119 \pm 1) \text{g/cm}^2$ . From the frequency of coincidences, the authors estimated the particle mean energy to amount to 30 Bev. The authors thank Professor L. Yanoshi, Professor G. Nadzhakov, and Professor I. Auslender for their interest and advice, N. Akhababyan, I. Kh. Ionn,

Card 2/4<sub>3</sub>

28921

S/056/61/041/004/004/019  
B108/B102

Absorption of nuclear-active cosmic-...

Y. Kokh, G. Taler, K. Tsige'man, and Y. Shnirer for the installation of the experimental device, and E. Rupp for assistance in calculations. Mention is made of Sh. A. Azimov, V. F. Vishnevskiy, N. I. Khil'ko (DAN SSSR, 78, 231, 1951), and of K. P. Ryzhkova and L. I. Sarycheva (ZhETF, 28, 618, 1955). There are 2 figures, 1 table, and 8 references: 3 Soviet-bloc and 5 non-Soviet. The four references to English-language publications read as follows: I. Tinlot, Phys. Rev., 74, 1197, 1948; L. Hodson, Proc. Phys. Soc., A65, 702, 1952; E. P. George, A. Jason, Proc. Phys. Soc., A63, 1081, 1950; H. S. Bridge, R. H. Rediker, Phys. Rev., 88, 206, 1952.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut fiziki Vengerskogo Akademii nauk, Budapesht (Central Scientific Research Institute of Physics of the Hungarian Academy of Sciences, Budapest) (G. Bozoki, E. Fen'vesh, T. Shandor), Institut yadernoy fiziki v Bukhareste, Rumyniya (Institute of Nuclear Physics in Bucharest, Romania) (O. Balea, M. Batagui, Ye. Fridlender), Fizicheskiy institut s Atomnoy nauchno-eksperimental'noy bazoy v Sofii, Bolgariya (Institute of Physics With Atomic Scientific Test Base in Sofiya, Bulgaria) (B. Betev, Sh. Kavlakov, L. Mitrani).

Card 3/4  
3

FEN'VESH, E. [Fenyvesi, E.]; SHCHERBAK, K.; VARA, K.

Use of gamma-ray sources for flaw detection at the Csepel  
Metallurgical Works (Hungary). Atom. energ. 15 no.4:351-353 0  
'63. (MIRA 16:10)

FMH'VESH, Tomash

The effect of smoking on the cardiovascular system; a survey of the literature. Klin.med. 37 no.7:7-11 J1 '59.

(MIRA 12:10)

1. Iz kafedry fakul'tetskoy terapii lechebnogo fakul'teta (zav. - prof.S.Ya.Shteynberg) Khar'kovskogo meditsinskogo instituta (dir. - dotsent I.F.Kononenko).

(SMOKING eff.)

(CARDIOVASCULAR SYSTEM physiol.)

16(1)

AUTHOR: Fen'ye, Ishtvan

SOV/20-125-1-12, 67

TITLE: On the Theory of Integral Operators of the Type of Volterra  
(O teorii integral'nykh operatorov tipa Vol'terra)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 51-54 (USSR)

ABSTRACT: Integral operators  $k$  and  $l$  of the type of Volterra in the  $L^2[0, a]$  are called linearly equivalent if there exists a bounded linear operator  $V$  satisfying the following conditions: 1)  $V^{-1}$  exists and is bounded, 2)  $k = V l V^{-1}$ . Theorem 1: Let  $K(x, y)$  be the kernel of  $k$ ,  $K(x, x) \equiv 1$ ,  $\frac{\partial k(x, x)}{\partial x} \equiv 0$ ,  $0 \leq x \leq a$ ,  $\frac{\partial^2 k}{\partial x \partial y}$  bounded.

Then  $k$  is linearly equivalent to the operator  $I f = \int_0^x f(t) dt$ ,  $f \in L^2[0, a]$ .

Let  $I_p f = \int_0^x \frac{(x-y)^{p-1}}{\Gamma(p)} f(y) dy$ ,  $f \in L^2[0, a]$ ; let the operator  $k$

Card 1/2

On the Theory of Integral Operators of the Type of Volterra

SOV/20-125-1-12,67

satisfy the conditions of theorem 1 and let  $k_p = \int_0^x v^{-1}$ .  
Theorem: If  $k$  satisfies the conditions of theorem 1, then there always exists an operator  $l$  for which  $l_n = k$ .

Theorem: If the kernel of  $k$  is given by  $K(x,y) = (y-x)^n \Lambda(x,y)$ , where  $\Lambda(x,x) \neq 0$ ,  $n$  positive integer and  $\Lambda$  has  $(n+2)$  continuous derivatives, then there exists an operator  $l$  for which  $l_n = k$ .

A result of L.A.Sakhnovich [Ref 1] is proved somewhat simpler. There is 1 Soviet reference.

PRESENTED: November 12, 1958, by S.L.Sobolev, Academician

SUBMITTED: October 28, 1958

Card 2/2

MOLNAR, Laszlo, okleveles banyamernok; POTHORNIK, Jozsef; LASSAN, Jozsef, banyamernok; BERCSENYI, Lajos, banyamernok; SZEKENYI, Ferenc, banyamernok; FENYES, Gyula, banyamernok; SULT, Tibor, banyamernok; ZSUFFA, Miklos, banyamernok; JAMBRICH, Gyula, banyamernok; REVVALVI, Janos, banyamernok; SZENDREY, Zoltan, banyamernok; BOCSI, Otto, banyamernok; SCHAFFER, Peter, banyatechnikus; SZTERMEN, Jozsef, banyamernok, muszaki fejlesztési csoportbeli foeloado; MAGYARFY, Karoly, gepeszmernok; SANDOR, Gasper, banyamernok; VISKARDI, Laszlo, gepeszmernok; GORDOS, Pal, gepeszmernok; CHMELL, Ferenc, gepeszmernok; ALMASIM Geza, gepeszmernok; AJTAY, Zoltan, dr., banyamernok; MARTOS, Ferenc, dr., banyamernok

Conference on technical development in Salgotarjan. Bany lap 97 no.10:720-722 0 '64.

1. Nograd Coal Minig Trust (for Pothornik, Lassan and Bercsenyi).
2. Nagyatnoy Colliery (for Szekenyi, Fenyes, Molnar, Sult and Chmell).
3. Mizserfa Colliery (for Zsuffa and Jambrich).
4. Matranovak Colliery (for Revfalvi, Szendrey and Bocsi).
5. Kanyas Colliery (for Schaffer, Sztermen and Magyarfy).
6. Zagyva Colliery (for Sandor, Viskardi and Gordos).
7. Director, Mining Research Institute, Budapest (for Ajtay).
8. Department Chief, Mining Research Institute, Budapest (for Martos).

FENYVES, A.; KLEIN, R.

Genetic mechanisms in viral carcinogenesis. Stud. cercet. infra-  
microbiol. 16 no.2:165-181 '65.

FLAMM, Sandor, dr.; MIHALYI, Laszlo, dr.; TOTH, Maria, dr.; FENYES, Gyorgyne, dr.

A new contribution to the role of the liver in water balance.  
Orv hetil 95 no.16:429-432 Ap '54. (REAL 3:8)

1. A Novarosi Uzsoki-utcai Korhaz (igazgato: Farkas Karoly dr., az orvostudomanyok kandidatusa) II. sz. Belosztalyanak (foorvos: Flamm Sandor dr.) kozlemenye.

(HEPATITIS, physiol.

\*failure of diuretic eff. of intravenous saline, mechanism)  
(DIURESIS, eff. of drugs on

\*saline, intravenous, failure of diuretic eff. in hepatitis.  
mechanism)

(SODIUM CHLORIDE, eff.

\*diuretic eff. of intravenous saline, failure in hepatitis,  
mechanism)

(LIVER, physiol.

\*regulation of water balance)

(WATER, metab.

\*liver regulation of water balance)

FENYES, Gyorgy, dr.

Diagnostic significance of carotid angiography. Ideg. szemle  
8 no.1:13-19 Feb 55.

1. Országos Idegsebészeti Tudományos Intézet (igazgató: dr.  
Zoltan Lasslo).

(ANGIOGRAPHY

carotid, diag. value & technics (Hun))

BEKENY, Gyorgy, dr.; FENYES, Gyorgy, dr.

Angiographic diagnosis of seven cases of primary thrombosis of the internal carotid artery. Ideg. szemle 8 no.3:78-87 June 55.

1. A Budapesti Orvostudományi Egyetem Elme- és Idegkörtani Klinikájának (igazgató: Nyíró Gyula dr.) és az Országos Idegsebészeti Tudományos Intézet (igazgató: Zoltán László dr.) közleménye.

(ARTERIES, CAROTID, dis.

thrombosis of internal carotid, diag. by angiography (Hun))

(THROMBOSIS

carotid artery, internal, diag. by angiography (Hun))

(ANGIOGRAPHY

carotid, diag. value in thrombosis of internal carotid artery (Hun))

FENYES, Gyorgy, dr.; KEPES, Janos, dr.

Surgery in cerebral Boeck-sarcoid. Ideg. szemle 9 no.3:75-79  
June 56.

1. Az Orszagos Idegsebesseti Tudomanyos Intezet (Igaz.: Dr.  
Zoltan Laszlo) kozl.

(SARCOIDOSIS

parietal lobe, surg. & diag. (Hun))

(PARIETAL LOBE, neoplasms

sarcoidosis, surg. & diag. (Hun))

ZAPPE, Lajos, Dr.; FENYVES, Gyorgy, Dr.

Value of tracheotomy in the therapy of respiratory disorders in neurosurgery. Ideg. szemle 10 no.3:77-84 July 57.

1. Az Országos Idegsebészeti Tudományos Intézet (Igazgató: dr. Zoltan László) közlése.

(NERVOUS SYSTEM, surg.

compl., resp. disord., indic. & value of tracheotomy (Hun))

(TRACHEA, surg.

tracheotomy in resp. compl. of NS surg., indic. & value (Hun))

FENYES, Gyorgy, dr.

Percutaneous vertebral angiography. Magy.radiol. 11 no.4:  
220-230 N '59.

1. Az Orazagos Idegsebészeti Tudományos Intezet (igazgató:  
Zoltan László dr.) közleménye.  
(CEREBRAL ANGIOGRAPHY)

FENYES, Istvan, dr.; ZOLTAN, Laszlo, dr.; FENYES, György, dr.

Results of surgical therapy in cases of deep temporal epilepsy.  
Ideggyogy. szemle 14 no.10:293-300 0 '61.

1. Az Országos Idegsebészeti Tudományos Intézet (Igazgató: Zoltan Laszlo dr.) közleménye.

(EPILEPSY surg)

HORN, Zoltan, dr.; LAZARITS, Jenő, dr.; NAGY, János, dr.; FENYES, György, dr.;  
PALKOVITS, Miklós, dr.

Use of radioiodine for diagnostic purposes in diseases of the thyroid gland. *Magy.radiol.* 14 no.4:205-207 J1 '62.

1. Fovárosi Karolyi Kornaz Izotop Laboratoriuma es Sebészeti Osztalya,  
Orvosi Fizikai Intezet (Budapest), Országos Onkológiai Intezet,  
Anatómiai Intezet (Budapest).

(THYROID GLAND dis) (IODINE radioactive)

BIHARI, Odon, dr.; GULBERT, Anna, dr.; FENYES, Gyorgyne, dr.; SUGAR, Janos, dr.;  
VENKEI, Tibor, dr.

Role of the P32 concentration test in early diagnosis of malignant  
tumors of the skin. Magy. radiol. 14 no.4:227-228 J1 '62.

1. Orszagos Onkologia Intezet kozlemenye (Igazgato: Vikol Janos dr.).  
(PHOSPHORUS radioactive) (SKIN NEOPLASMS diag)

HUNGARY

KARIKA, Zsigmond, Dr. FENYES, Gyorey (Mrs), Dr; National Oncological Institute, Isotope Department. ( Orszagos Onkologiai Intezet, Izotop Osztaly).

"Results With the Radioactive Iodide Treatment of Thyroid Carcinoma."

Budapest, Orvosi Hetilap, Vol 104, No 27, 7 July 1963, pages 1275-1278.

Abstract: [Authors' Hungarian summary] The authors discuss the experiences gained with the treatment of thyroid carcinoma with radioactive iodide. Primary, iodide-absorbing cases are absolute indications for this treatment. The extension of the treatment is recommended to iodide non-absorbing tumors which, on scintigraphic examination, show the existence of normally functioning thyroid matter. This stand is justified by the temporary improvement of half of the 26 cases belonging to this group which were treated with the isotope. The use of radioactive iodide should also be considered as a supportive measure in external radiation (X-ray, cobalt) treatments. 10 Hungarian, 13 Western references.

1/1

*Fenyves, I.*  
RADO, Janos, dr.; FRANK, Magda, dr.; ~~FENYVES, Imre, dr.~~; Technikai munkatars: Fulop, Belane, assisztens

Kidney function in diabetic coma. Orv. hetil. 98 no.24:  
650-653 16 June 57.

1. A Janos Korhaz Rendelointezet (igazgato-foorvos:  
Bakacs, Tibor, dr.) II. sz. Belosztalyanak (foorvos:  
Pencsath, Aladar, dr.) Prosecturajanak (foorvos:  
Gallo, Antal, dr., az orvostudomanyok dektora) es  
Kosponti Laboratoriumanak (foorvos: Hammer, Sarolta, dr.)  
kozlemenye.

(DIABETES MELLITUS, compl.

coma, kidney funct., prognostic significance (Hun))

(KIDNEYS, in various dis.

diabetic coma, prognostic significance of funct. (Hun))

KORANYI, Andras, dr.; LORINCZ, László, dr.; KARSAY, Gyula, dr.;  
BIKICH, György, dr.; FENYES, Imre, dr.

Oral sulfonamideurea therapy in diabetes mellitus. Orv. hetil.  
98 no.21:537-545 26 May 57.

1. A Fovarosí Tanács Janos Korhas Rendelo Intezete (igaszgato-  
foorvos: Bakacs, Tibor, dr.) Belosztalyanak (foorvos: Koranyi, Andras,  
dr.) Anyagosere (cukorbeteg) Rendelesenek (foorvos: Bikich, György,  
dr.) es Laboratoriumanak (foorvos: Hammer, Sarolta, dr.) kozlemenye.

(DIABETES MELLITUS, ther.

carbutamide (Hun))

(UREA, related cpds.

carbutamide ther. of diabetes mellitus (Hun))

(SULFANILAMIDE, related cpds.

same)

FENYES, Imre

Principle of entropy maximum and minimum entropy production.  
Fiz szemle 14 no. 3:78-83 Mr '64.

1. Eotvos Lorand Tudomanyegyetem Elmeleti Fizikai Intezete.

8

1774. On the wave-mechanical derivation of the statistical atom model. *Isra Feysas. Z. Physik 125, 336-46(1949) (in German).*

Dirac (*Proc. Cambridge Phil. Soc.* 26, 376(1930) and Brillouin (*L'atome de Thomas-Fermi, Paris, Hermann, 1934*) have shown that the fundamental equations of the statistical theory of the atom can be derived from wave-mechanical concepts. Following this method, Hellmann (*Ann. Physik, U.S.S.R.* 4, 225(1936)) was able to introduce into statistics the quantum number 1, and Weissacker (*Z. Physik 96, 431(1934)*) obtained improved approximations for the kinetic energy. The present author shows that the calculations of the last named investigators can be considerably simplified. A general and very simple procedure is shown for a wave-mechanical derivation of all statistical atom models. It is based upon the method developed by the following writers; Wentzel (*Z. Physik 38, 518(1926)*), Kramers (*Z. Physik 39, 828(1926)*), and Brillouin (*Notions de mecanique ondulatoire, Paris, Herman, 1932, p. 39*). Using this method, the equations of the self-consistent field are approximately solved; an integration is employed instead of a

1774-514 METALLURGICAL LITERATURE CLASSIFICATION

GENERAL INDEX

INTERNAL INDEX

EXTERNAL INDEX

1949-51

1948-50

1947-48

1946-47

1945-46

1944-45

1943-44

1942-43

1941-42

1940-41

1939-40

1938-39

1937-38

1936-37

1935-36

1934-35

1933-34

1932-33

1931-32

1930-31

1929-30

1928-29

1927-28

1926-27

1925-26

1924-25

1923-24

1922-23

1921-22

1920-21

1919-20

1918-19

1917-18

1916-17

1915-16

1914-15

1913-14

1912-13

1911-12

1910-11

1909-10

1908-09

1907-08

1906-07

1905-06

1904-05

1903-04

1902-03

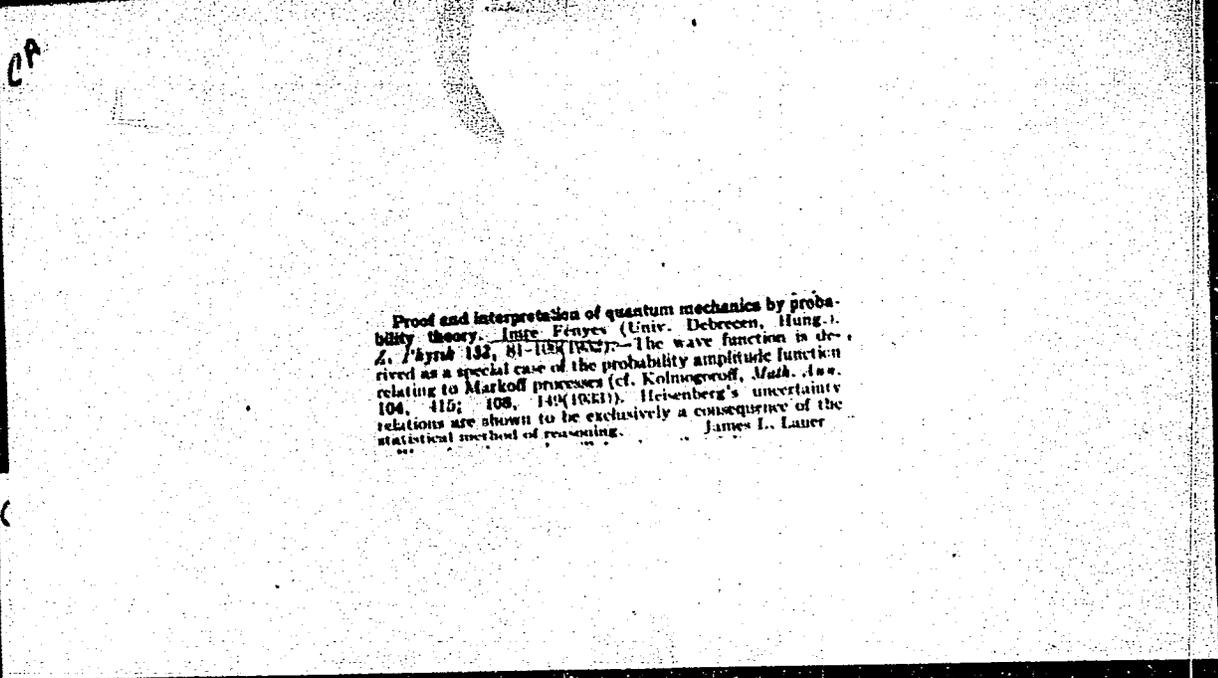
1901-02

1900-01

summation, over the quantum states. The fundamental statistical equations are obtained from the variations of the corresponding energy expressions.

Imre FÉNYES

3



CPA

Proof and interpretation of quantum mechanics by probability theory. Imre Fényes (Univ. Debrecen, Hung.). *Z. Physik* 135, 81-102 (1952). The wave function is derived as a special case of the probability amplitude function relating to Markoff processes (cf. Kolmogoroff, *Math. Ann.* 104, 415; 108, 149 (1931)). Heisenberg's uncertainty relations are shown to be exclusively a consequence of the statistical method of reasoning. James L. Lauer

CA

Application of the mathematical principles of mechanics to thermodynamics. *Magy. Fizik. (Univ. Debrecen, Hung.)*, 2, *Fizik* 132, 150-5 (1952).—The quantities of mechanics have their thermodynamic equivalents. By application of the equations of classical mechanics to the corresponding thermodynamic variables the principles of irreversible processes and the impossibility of a thermal quantum mechanics are derived. James L. Lauer

Thermodynamic properties of methyl cyanide (acetonitrile). *Is. H. Günthard and E. Kováts (Eidg. Tech. Hochschule, Zurich, Switz.). Helv. Chim. Acta* 35, 1190-1

(1952)(in German).—From infrared (cf. Venkateswarlu, *C.A.* 43, 8696a), Raman (cf. Dutt and Kohrausch, *C.A.* 24, 3437); Reits and Strubal, *C.A.* 31, 7769), and microwave (cf. Kessler and Gordy, *C.A.* 44, 8241d) spectra, the entropy, enthalpy, and sp. heat of MeCN between 308 and 1000°K. were calcd., assuming a rigid rotator and harmonic oscillator, and neglecting nuclear spin. H. Newcombe

Fényes, I. Über das Divergenzproblem der W. K. B. Methode. Acta Phys. Acad. Sci. Hungar. 4 (1954), 133-147. (Russian summary)

In der vorliegenden Arbeit wird gezeigt, dass der divergente Charakter der W.K.B. Methode in einem inneren Widerspruch begründet ist. Dieser innere Widerspruch hängt damit zusammen, dass die W.K.B. Methode die Lösung der Schrödingerschen Gleichung von der klassischen Mechanik (als nullter Näherung) ausgehend sucht. Die Bewegung der klassischen Mechanik hat nämlich im

allgemeinen einen anderen Wendepunkt als die irreguläre Bewegung der Quantenmechanik, und die sich daraus ergebende Abweichung kann auch durch Heranziehung

höherer Näherungen nicht eliminiert werden. Mathematisch kommt dieser Widerspruch dadurch zum Ausdruck, dass die bei der W.K.B. Methode angewandte Reihenentwicklung nicht existiert. Es wird gezeigt, dass durch Verwendung einer existierenden Reihenentwicklung und durch Berücksichtigung der Abhängigkeit des Eigenwertes  $E$  von  $\hbar$  die Methode divergenzfrei gemacht werden kann. Dabei wird auch der Grund dafür ersichtlich, dass die der W.K.B. Methode entsprechende erste Näherung in einem gewissen Bereich ein ziemlich gutes Resultat liefert. Endlich folgt eine Diskussion der Anwendbarkeit der allgemeinen Quantenbedingung, der sich dabei ergebenden Möglichkeiten und der gebotenen Einschränkungen. (Author's summary.)

M. A. Hyman

I-F/W  
On the Divergence Problem of the Point of Inflection in Classical Motion, (the W. K. B. Method, or "Wendepunkt klassischer Bewegung Methode").

The author points out an inconsistency in the use of the W. K. B. method for the solution of Schroedinger's equation. He suggests a method of quantum mechanics which circumvents this difficulty.

The determination of radial and azimuthal contributions  
to the zero-point energy by the statistical atomic model  
L. Pénzes (Rohrdorf, Univ. Budapest). *Acta Phys.*  
*Acad. Sci. Hung. 5* 205 (1955 in German).—The radial  
and azimuthal contributions to the kinetic zero-point  
energy can be calculated from the statistical model without  
any further assumptions. The ratio of the radial to the azi-  
muthal contributions is 1/2. H. H. Jaffe

*Handwritten signature*

FENYES, I.

Albert Einstein; a biographic sketch. p. Meeting of the board of the  
Society. p. 310. TERMESZET ES TARSADALOM. (Tarsadalom- es Termeszettudomani  
Ismeretterjeszto Vallalat) Budapest. vol. 114, no. 5, May 1955. From Lenin's  
legacy; Lenin's guidance for workers in cultural propaganda work. p. 257.

SOURCE: East European Accessions List (EEAL), Library of Congress  
Vol. 5, no. 6, June 1956

FENYES, I.

Tibor Herczeg's Kopernikusz (Copernicus); a book review. p. 317. TERMESZET ES TARSADALOM. (Társadalom- es Természettudományi Ismeretterjesztő Vallalat) Budapest. Vol. 114, no. 5, May 1955. From Lenin's legacy; Lenin's guidance for workers in cultural propaganda work. p. 257.

SOURCE: East European Accessions List (EEAL), Library of Congress  
Vol. 5, no. 6, June 1956

FENYES, L

John Von Neumann; an obituary.

P. 85 (FIZIKAI SZEMLE) Budapest Vol. 7 No. 2/3, Apr./June 1957.

SO: Monthly Index of East European Accessions (AEEI) Vol. 6, No. 11 November 1957.

Concerning the Principle of Le Chatelier and Braun

Fényes, I. Über das Prinzip von Le Chatelier und Braun. Acta Phys. Acad. Sci. Hungar. 8 (1958), 419-423. (Russian summary)

The paper gives an exact derivation of the principle and a brief discussion of its range of applicability.

I. Kestin (London)

2  
1-FIW

HUNGARY/Atomic and Molecular Physics - Statistical Physics

D-4

Abs Jour : Ref Zhur - Fizika, No 2, 1959, No 3009

Author : Fenyés Imre

Inst :

Title : Fundamental Theorems of Thermodynamics

Orig Pub : Fiz. szemle, 1958, 8, No 4, 123-126

Abstract : No abstract

Card : 1/1

HUNGARY/Atomic and Molecular Physics - Statistical Physics  
Thermodynamics.

D-4

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 5409

Author : Fenyves Imre

Inst :

Title : Principal Theorems of Thermodynamics. II.

Orig Pub : Fiz. szemle, 1958, 8, No 5, 160-165

Abstract : For Part I see Referat Zhur Fizika, 1959, No 2, 3009

Card : 1/1

HUNGARY/Atomic and Molecular Physics - Statistical Physics.  
Thermodynamics

D-4

Abs Jour : Ref Zhur - Fizika, No 5, 1959, No 10356

Author : Fenyés Imre

Inst : -

Title : Fundamental Theorems of Thermodynamics. III.

Orig Pub : Fiz. szemle, 1958, 8, No 6, 185-189

Abstract : For Part II see Referat Zhur Fizika, 1959, No 3, 5409

Card : 1/1

HUNGARY/Atomic andMolecular Physics - Statistical Physics.  
Thermodynamics

D-4

Abs Jour : Ref Zhur - Fizika, No 5, 1959, No 10357

Author : Fenyés Irre

Inst : -

Title : Fundamental Theorems of Thermodynamics. IV.

Orig Pub : Fiz. szemle, 1958, 8, No 7, 225-230

Abstract : For Part III see Abstract 10356

• Card : 1/1

FENYES, Imre

"The world concept of present-day physics" by Werner Heisenberg.  
Reviewed by Imre Fenyés. Fiz szemle 8 no.10:327-328 D '58.

SQV/56-35-4-36/52

24(8)

AUTHOR: Fen'yes, I.

TITLE:

An Analogy Between the Mechanical and Thermodynamical Equations of Motion and the Reciprocity Relations of Onsager (Analogiya mezhdru mekhanicheskimi i termodinamicheskimi uravneniyami dvizheniya i sootnosheniya vzaimnosti Onzagera)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 4, pp 1039-1041 (USSR)

ABSTRACT:

In several papers by K. Popov (Ref 1) and Kh. Karanikolov (Ref 2) the reciprocity relations of Onsager (Onzager) (Ref 3) were derived on the basis of a hypothetical analogy between classical mechanics and irreversible thermodynamics. The basic equations of irreversible thermodynamics can be written down as follows:  $X = -g\alpha$ ,  $\dot{\alpha} = LX$ ,  $X = R\dot{\alpha}$  ( $R = L^{-1}$ ). Here  $X$  denotes the vector of force,  $\alpha$  - the vector of state,  $L(R)$  the matrix of conductivity (of "resistance"), and  $g$  the symmetric matrix  $g = \tilde{g}$ ; the symbol  $\sim$  here denotes the transposition, the components of which are the derivatives of second order (provided with the minus sign)  $g_{ik} = -\partial^2 S / \partial \alpha_i \partial \alpha_k$  of the

Card 1/3

SOV/56-35-4-36/52

An Analogy Between the Mechanical and Thermodynamical Equations of Motion  
and the Reciprocity Relations of Onsager

entropy  $S = S(\alpha_1, \alpha_2, \dots, \alpha_n)$ . The present paper shows the following: The result obtained by Popov can be derived in a much more simple way. The equation  $X = \ddot{\alpha}$ , which was suggested by Popov, is a highly restrictive and, in general, unfounded condition, from which  $L^{-2} = g$  and  $L = g^{-1/2}$  would follow. Instead of  $X = \ddot{\alpha}$  another relation can be selected, which may with full justification be considered to be the thermodynamical analogy of Newton's (Nyxton) equation of motion. Onsager's reciprocity relation  $L_{ij} = L_{ji}$  unfortunately does not follow from the aforementioned general relation. First, a very simple derivation of Onsager's relation from the aforementioned equations and from the equation  $X = \ddot{\alpha}$  is shown. In this way the equation

$$-X = (LgL)^{-1} \ddot{\alpha} = Rg^{-1} R \ddot{\alpha}$$

which is apparently of the same shape as Newton's equation of motion  $F = m\ddot{r}$ . This analogy is explained in detail. It is fully conserved also if, instead of the motion of a point under the influence of friction, the revolution of a solid body in the presence of an anisotropic frictional force is investigated. There are 4 references, 2 of which are Soviet.

Card 2/3

SOV/56-35-36/52

An Analogy Between the Mechanical and Thermodynamical Equations of Motion  
and the Reciprocity Relations of Onsager

ASSOCIATION: Institut teoreticheskoy fiziki  
(Institute of Theoretical Physics)  
Universitet im. L. Etvesha Budapesht  
(University imeni L. Eötvös Budapest)

SUBMITTED: May 23, 1958

Card 3/3

FENYES, I.

"On the relationship between wave-mechanical natural-value power problems and classic mechanics." In German. p. 245.

ACTA PHYSICA. (Magyar Tudomanyos Akademia). Budapest, Hungary, Vol. 9, No. 3, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.  
Uncla.

FAY, Gy.; FIENYES, I.; TOROS, R.

On the quantum mechanical possibility of physical conditions. Acta  
phys Hung 11 no.2:109-115 '60. (EEAI 9:10)

Institut für Theoretische Physik, Roland Eotvos University,  
Budapest. Verlegt von L. Janossy.  
(Quantum mechanics)

FENYES, I.

Substantiation of thermodynamics. II. Experimental properties, equilibrium, and stability, Le Chatelier-Braun's principle, time transients of processes in the proximity of equilibrium. Acta phys Hung 11 no.2:131-153 '60. (EEAI 9:10)

1. Institut für Theoretische Physik Roland Eotvos University, Budapest. Vorgelegt by K.F. Novobatzky.  
(Thermodynamics)

FENYES, Imre

"Map" of physics; force and momentum. Elet tud 15 no.32:  
995-998 7 Ag '60.

1. "Elet es Tudomany" szerkeszto bizottsagi tagja.

FENYES, Imre

Energy. Elet tud 16 no.14:424-426 2 Ap '61.

1. "Elet es Tudomany" szerkeszto bizottsagi tagja.

LYKOW, A.W. [Lykov, A.B.]; FENYES, I.; ENDRENYI, S.

The knowledge of heat and mass transfer as foundation for the theory of drying. Acta techn Hung 11 no.1/2:201-224 '62.

1. Mitglied der Akademie der Wissenschaften der Belorussischen Socialist.Sowjetrepublik (for Lykov).

FENYES, Imre

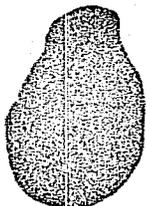
"Map" of physics; mass and motion. Elet tud 15 no.28:885-887  
10 JI '60.

1. "Elet es Tudomany" szerkeszto bizottsagi tagja.

FENYES, Imre, dr.

'The blue bell; the life of Alexander Graham Bell" by Emil Kindzierszky. Reviewed by Imre Fenyes. Elet tud 18 no. 34: 1066 25 Ag '63.

1. "Elet es Tudomany" szerkeszto bizottsagi tagja.



FENYES, Imre, a fizikai tudományok doktora, egyetemi tanár

Temperature distribution determination in static and stationary equilibrium. Energia es atom 17 no.9:420-423 S '64.

1. Institute of Theoretical Physics, Lorand Eotvos University, Budapest, and Division of the Theory of Combustion, Electric Power Industry Research Institute, Budapest.

AUBERT, H., prof. STANCIU, L., dr.; MARGU, A., dr.; ROSU, Cl., dr.; STEIN, J.,  
chimista; FENYES, I., student

Cardiovascular repercussions of some factors connected with working  
conditions in several enterprises. Preliminary note. Med. intern.  
14 no.4:589-594 My '62.

1. Lucrare efectuata in Clinica I medicala I.M.F. Timisoara.  
(CARDIOVASCULAR DISEASES) (OCCUPATIONAL DISEASES)

FENYES I. AND ZOLTAN L. Koltai Anna Baleseti Korhaz Idegcszalyanak es Budapesti Tudomanyegyetem III. sz. Sebészeti Klinikájának Közleménye. A hydro-cephalusok műteti megoldásának kérdése, különös tekintettel a Torkildsen műtetre (ventriculocisternostomia) Surgical treatment of hydrocephalics with special regard to Torkildsen's method Orvosi Hetilap, Budapest 1949, 90/24 (742-746) Illus. 1

Complete recovery after Torkildsen's operation can only be expected in hydrocephalus without tumour. Such a case is the non-communicating hydrocephalus, in which ventriculo-cisternostomy restored the CSF circulation. There is a possibility of neurological disease causing hydrocephalus without complete block of the CSF circulation. In such a case it can be supposed that the full restoration of the CSF circulation leads to recovery. Inoperable tumour which causes partial block may likewise give rise to hydrocephalus. It seems reasonable to perform the Torkildsen operation in all three types of hydrocephalus. First case: non-communicating hydrocephalus, with intolerable headache, vomiting, and very severe cerebellar ataxia. The operation resulted in full recovery. Second case: post-traumatic hydro-cephalus with partial block, the clinical signs being very severe headache, giddiness, diplopia, and choked disc of 4-5 D. Eight weeks after the Torkildsen operation there was subjectively full recovery, objectively, clearing of the choked disc. Third case: inoperable contine tumour with partial block. The operation produced only subjective improvement.

De Lehoczky-Budapest

SO: Neurology & Psychiatry Section VIII Vol 3 No 7-12

FENYES, I.; ZOLTAN, L.

Cerebral and spinal cord injuries, and their neurological and  
neurosurgical aspects. Orv.hetil. 91 no.20:624-629 14 Ny '50.  
(CML 19:2)

FENYES, I.; HEDRI, A.

On osmoregulation of CSF pressure. Acta physiol. hung. 4 no.1-2:97-106  
1953. (GLML 25:1)

1. Of the Second Surgical Clinic of Budapest University.

HUNGARY / Human and Animal Physiology. Nervous System.

T-10

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3754

Author : Csalay, L.; Fenyves, I.; Kalentei, B.; Ludany, G.  
Inst : Not given

Title : Pertaining to the Patho-physiological Mechanism of  
Pressure Elevation of the Cerebrospinal Fluid in  
Hypoxia

Orig Pub : Kisérlet. orvostud., 1957; 9, No 4, 374-380

Abstract : In cats under chloralose narcosis, an increase of CSF  
pressure was produced by inspiration of a mixture of  
N containing 6% O<sub>2</sub>. Under the effect of the preparation,  
the pressure of CSF increased (48/80) which stipulates  
an endogenic mobilization of histamine. Antihistaminic  
preparations (Neo-antergan, Antistine, Sandosten and  
Synopen), in the average lowered by 30% the CSF pressure,  
which increased due to the hypoxia. Substances that

Card 1/2

HUNGARY / Human and Animal Physiology. Nervous System.

T-10

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3754

depress the sympathetic nervous system (Ergam, Gynergen, Ca, Rutin) and decrease  $\text{pH}$  permeability have no influence on the process.

Card 2/2

68

Fenyves, I

CSALAY, L.; FENYVES, I.; KELENTSI, B.; LUDANY, G.

Pathomechanism of hypoxic increase of cerebrospinal fluid pressure.  
Acta med. hung. 10 no.4:397-404 1957.

1. Patho-physiologisches Institut der medizinischen Universitet,  
Budapest.

(CEREBROSPINAL FLUID

pressure increase induced by exper. anoxia in cats,  
influence of various drugs (Ger))

(ANOXIA, exper.

inducing increased CSF pressure in cats, influence of  
various drugs (Ger))

ZOLTAN, Laszlo, dr.; FENYES, Istvan, dr.

New stereotactic surgical methods in the diagnosis and therapy  
of chordoma of the clivus. *Magy.radiol.* 11 no.4:202-209  
N '59.

1. Az Országos Idegsebészeti Tudományos Intézet (igazgató:  
Zoltan Laszlo dr.) közleménye.  
(CHORDOMA surg)  
(BRAIN surg)

ZOLTAN, Iaszlo, Dr.; ~~EMYES~~, Istvan, Dr.

Problems of surgical treatment of cervical nerve root lesions. *Magy. sebeszet* 12 no.2:115-118 Mar 59.

1. Az Orszagos Idegesebeszeti Tudomanyos Intezet kozlomenye Igazgato:  
Zoltan Iaszlo dr.

(~~INTERVERTEBRAL DISK DISPLACEMENT~~  
cervical disk prolapse (Hun))

FENYES, Istvan, Dr.; GERGELY, Karoly, Dr.; TOTH, Szabolcs, Dr.

Clinical and electromyographic investigations on spiral reflexes  
in premature and mature infants. Ideg. sz. 12 no. 9:267-274 Sept 59

1. Az Orszagos Idegsebészeti Tudományi Intézet (igazgató: dr. Zoltan  
Iassó) és a Semmelweis Megyei Agoston kórház (igazgató: dr. Gergely Karoly)  
közleménye.

(SPINAL CORD, physiol.)

(INFANT NEWBORN, physiol.)

(INFANT PREMATURE, physiol.)

(ELECTROMYOGRAPHY)

FENYES, Istvan, dr.; GERGELY, Karoly, dr.; KNEISZL, Ferenc, dr.

Absence of crossed inguinal extension reflex as a diagnostic sign of intracranial and intraspinal hemorrhages in premature infants. Orv.hetil. 101 no.46:1638-1639 13 N°60.

1. Országos Idegsebészeti Tudományos Intézet és a Schopf-Merei Agoston Koraszülő- és Koraszülött Korház.

(INFANT PREMATURE dis)  
(CEREBRAL HEMORRHAGE in inf & child)  
(SPINAL CORD dis)  
(REFLEX)

FENYES, Istvan, dr.; ZOLTAN, Laszlo, dr.; FENYES, Gyorgy, dr.

Results of surgical therapy in cases of deep temporal epilepsy.  
Ideggyogy. szemle 14 no.10:293-300 0 '61.

1. Az Orszagos Idegsebészeti Tudományos Intezet (Igazgato: Zoltan Laszlo dr.) közleménye.

(EPILEPSY surg)

FENYES, I.; GERGELY, K.; TARISKA, S.; KNEISZL, F.

Absence of crossed inguinal extension reflex in severe cerebral hypoxia of premature infants. Acta paediat. acad. sci. hung. 3 no.2:159-165 '62.

1. Institute of Neurosurgery (Director: Dr. L. Zoltan), Schopf-Merei Hospital (Director: Dr. K. Gergely) and National Institute for Nervous and Mental Diseases (Director: Dr. B. Maria) Budapest.  
(CEREBRAL ANOXIA) (ASPHYXIA NEONATORUM)  
(INFANT, PREMATURE, DISEASES) (REFLEX)

LEVENDEL, Laszló, dr.; FENYO, Istvan, dr.

Electroclassifier, an instrument for solving complex problems  
in diagnostic classification. Orv.hetil. 102 no.7:307-310 12 F'61.

1. Az Országos Könyvtári Intézet és a Magyar Tudományos Akadémia  
Matematikai Kutató Intézeté.  
(AUTOMATIC DATA PROCESSING)  
(DIAGNOSIS)

KNEISZL, F.; PASZTOR, E.; BENEDIKT, Alice, FENYES, I.

Cases of excessive hydrocephalus with ruptured diverticulum of the third ventricle, caused by aqueductal malformation. Acta paediat. acad. sci. Hung. 4 no.3:333-346 '63

I. Schopf-Merei Hospital (director: dr. K. Gergely) and Institute of Neurosurgery (director: dr. L. Zoltan), Budapest, Hungary.

X

HUNGARY

ZOLTAN, Laszlo, Dr, FENYES, Istvan, Dr; National Neurosurgical Scientific Institute (Orszagos Idegsebészeti Tudományos Intezet) (director: ZOLTAN, Laszlo, Dr).

"The 'Silent' Brain Tumors Among Epileptics."

Budapest, Idegyógyászati Szemle, Vol XIV, No 6, June 63, pages 161-167.

Abstract: [Authors' German summary] The authors present the clinical data on 2 (3) epileptic patients where clinical examinations including neurosurgical diagnostic procedures gave no evidence of a tumor or reduction of space. During the epilepsy-operation, an unexpected tumor (astrocytoma, hemangioma) was detected in each case which could be removed completely. Since the operation, the patients have been free of seizures. All Western references.

|1/1

FENYES, Jozsef

Economical use of locomotives in the Dombovar Enginehouse. Vasut  
13 no.9:6 S '63.

1. Futohaz, Dombovar.

FENYES, T.

FENYES, T. Skin effect originating in many-layered coils. p. 209.

Vol. 3, No. 1/2, 1954 (published 1955).

KOZLEMENYEI.

SCIENCE

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

FENYES, T. (Budapest)

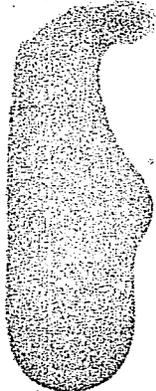
Application of Mikusinski's operational calculus in solving retarded differential equations with constant coefficients. Mat kut kozl MTA 4 no.2:191-196 '59 (1959:3)

1. A Magyar Tudományos Akademia Matematikai Kutató Intézete.  
(Calculus, Operational) (Differential equations)

FENYES, Tamas (Budapest); NADAS, Tibor (Budapest)

General geometric economy problems relating to the laminated  
core sheets of miniature transformers. Mat kut kozl MTA 5 no.4:  
473-494 '60. (EEAI 10:8)

1. Híradastechnikai Ipari Kutató Intézet, Budapest.  
(Electric transformers)



FENYES, Tamas

Application of modern operational calculus in the analysis of  
answers of simple transmission systems. Mat kut kozl MTA 5 no.4:  
461-471 '60.

(EEAI 10:8)  
(Calculus, Operational) (Transmission lines)  
(Electric circuits) (Laplace transformation)

FENYES, Tamas, tudományos munkatárs

"Theory of four-terminal networks" by V. P. Sigorskii. Reviewed by  
Tamas Fenyes. Magy tud 68 no.11:714-715 N '61.

1. Magyar Tudományos Akademia Matematikai Kutato Intezete, Budapest.

(Electric networks)  
(Sigorskii, Vitalii Petrovich)

FENYES, T.; KOSIK, P.

On the system of heat-conducting bars. Mat kut kozl MTA 7 Ser.A  
no.1/2:181-189 '62.

WLOKA, Josef; FENYES, Tamas [translator]

Application of operator calculus for solving difference-differential equations with constant linear coefficient. Mat kozl  
MTA 12 no.3:265-291 '62.

FENYES, Tamas; KOSIK, Pal

About systems consisting of heat-conducting rods. Mat lapok  
13 no.1/2:197-198 '62.

FENYES, Tamas

"Quantum electrodynamics" by A.Ahijezer [Akhiyezer, A.] and  
V.Beresztyeckij [Berestetskiy, V.] Reviewed by Tamas Fenyes.  
Magy tud 69 no.3:201 Mr '62.

1. Tudományos munkatárs, Magyar Tudományos Akadémia Matematikai  
Kutató Intézete.

FENYES, Tamas

"Design of networks and feed-back amplifiers" by H.W. Bode. Reviewed  
Tamas Fenyes. Magyar Tud 69 no.11:741 N '62.

1. Magyar Tudomanyos Akademia Matematikai Kutato Intezete tudomanyos  
munkaraja.

FENYES, Tamas

Restrictive linear partial differential-difference equations  
with constant coefficients. Mat kut kozl MTA 8 A series  
no.1/2:13-25 '63.

FENYES, Tamas, tudomanyos munkatars

"Handbook on radio engineering" by Meinke, Gundlach. Reviewed  
by Tams Fenyes. Magy tud 70 no.4:297 Ap '63.

1. Magyar Tudomanyos Akademia Matematikai Kirtato Intezete.

FENYES, Tamas, tudományos munkatárs

"Technical application of Laplace transformation" by György Fodor. Reviewed by Tamas Fenyes. Magyar tud 70 no.9:664-666 S '63.

1. Magyar Tudományos Akadémia Matematikai Kutató Intézet.

FENYES, Tamas, tudomanyos munkatars

"Mathematical methods in chemical practice" by L.M.Batuner,  
M.E.Pozin. Reviewed by Tamas Fenyes. Magyar Tud 71 no. 4:  
272-273 Ap '64.

1. Research Institute of Mathematics, Hungarian Academy of  
Sciences.

FENYES, Tamas; KORMENDY, Laszlo; ZUKAL, Endre

Mathematical examination of the light caused fading process in corned  
beef. Pt. 1. Mat kut kozl MTA 8 Series B no.4:529-540 '63(publ. '64).

1. National Meat Industry Research Institute, Budapest (for Kormendy and  
Zukal).

FENYES, Tamás; MEITZEN, Nándor; TOTH, Karoly

Resonance testing of a bivariant vibration system in case of saw-toothed periodic exciting forces. Mat kat kozl MTA 8 Series B no.4:599-615 '63(publ. '64).

1. Mining Research Institute, Budapest (for Meitzen).

FENYES, Tamas; KOSIK, Pal

Algebraic integral of Mikusinski's operators. Mat kut kozl  
MTA 9 Series A no.1/2:21-34 '64.

FENYES, Tamas

Application of Mikusinski's operational calculus in solving special linear partial differential equations with variable coefficients. Mat kut kozl MTA 9 Series A no.1/2:35-50 '64.

FENYES, Tibor

$\alpha$ -decay of nonspheroid nuclei. *Magy fiz folyoir* 8 no.4:323-333  
'60. (EEAI 10:2)

1. Kiserleti Fizikai Intezet, Debrecen.  
(Alpha rays) (Protons) (Radioisotopes) (Thorium)  
(Uranium) (Plutonium) (Neptunium)

FENYES, Tiber

Semiconductor nuclear physical spectrometers. ATOMKI kozl  
3 no. 1:43-54 '61.

FENYES, Tibor

$\alpha$ -radioactivity of medium heavy nuclei; a summary. ATOMKI kozl  
4 no.2:97-104 Ag '62.

FENYES, Tibor; MAHUNKA, Imre

A Si semiconductor  $\alpha$ -spectrometer. Magy fiz folyoir 10  
no.1:21-32 '62.

1. Kossuth Lajos Tudományegyetem, Kísérleti Fizikai Intézet,  
Debrecen.

SCHADEK, Janos; BERENYI, Denes, dr.; FENYES, Tibor

Vacuum evaporator for preparing radioactive sources in nuclear spectroscopic investigations. ATOMKI kozl 4 no.2:119-123 Ag '62.

1. "ATOMKI KOZLEMENYEK" szerkeszto bizottsagi tagja.

MAHUNKA, Imre; LAKATOS, Tamás; FENYES, Tibor; KAROLYI, Gyula, fizikus;  
BAKOCZY, Gyula, mernok; CSUKA, Imre, mernok; NAGY, Jozsef,  
mernok.

Charge sensitive amplifier system with low noise level for  
nuclear semiconductor spectrometer. ATOMKI kozl 5 no.2:  
65-75 '63

BERENYI, D.; FENYES, T.

Silicon junction detector in a magnetic beta-ray spectrometer.  
ATOMKI kozl 5 no. 3/4 1-6 D '63.

1. Institute of Nuclear Research of the Hungarian Academy  
of Sciences, Debrecen.

FENYES, T.; BODY, Z.

Expected  $\alpha$ -decay data of the rare earth nuclides on the basis of different systematics. ATOMI KOZL 5 no. 3/4 1-17 p '63.

1. Institute of Nuclear Research of the Hungarian Academy of Sciences, Debrecen (for Fenyes).
2. Institute for Experimental Physics of the Lajos Kossuth University, Debrecen (for Body).

FENYES, Tibor

Analysis of  $\alpha$ -radiation of the atomic nuclei of rare-earth elements. Fiz szemle 15 no.12:384-386 D '64.

1. Nuclear Research Institute of the Hungarian Academy of Sciences, Debrecen. At present: Joint Nuclear Research Institute, Dubna, U.S.S.R.

FENYES, T.; BODY, Z.

Expected  $\alpha$ -decay data of the rare earth nuclides on the basis of different systematics. Acta phys Hung 16 no. 4:299-320 '64.

1. Institute of Nuclear Research of the Hungarian Academy of Sciences, Debrecen (for Fenyes). 2. Institute for Experimental Physics of the Kossuth University, Debrecen (for Body).  
Presented by A.Szalay.

JONA, Istvan, dr.; FENYES, Zeuzsa, dr.; KARIKA, Zsigmond, dr.; LOKOS,  
Margit, dr.

The use of radioisotopes in the examination of the lymphatic  
system. Orv. hetil. 106 no.49:2325-2327 15 D ' 65

1. Orszagos Onkologiai Intezet, Rontgenlaboratorium es  
Izotop Osztaly.